

BS 8613:2017



Test of: Exitex roller finger blind protector

Finger Protection Devices for Pedestrian Doors – Specification

A Report To:
Exitex Ltd
Mount Pleasant, Dundalk, Co. Louth, Ireland

Document Reference:
WIL 522800

Date: 21/08/2023

Copy: 1

Issue No.: 2

Page 1

TEST CONCLUSIONS

Samples of:
Manufacturer Exitex Ltd
Product Finger Trap guard
Model Roller Finger Blind Protector

have been tested in accordance with: BS 8613:2017
By Element Materials Technology, a UKAS accredited Testing Laboratory (No. 0621)

At Unit 3 Wednesbury One, Black Country New Road, Wednesbury, WS10 7NZ.
Results and comments as detailed below:

Clause No.	Description	Compliance
4	Classification	Class 2
5	Requirements	Yes
5.1	General requirements	Yes
5.2	Mechanical function and structural integrity	Yes
5.3	Effectiveness	Yes
5.3.2	Prevention of finger entrapment requirement	Yes
5.3.3	Deformation of the device	Yes
5.4	Small parts	Yes
5.5	Sharp edges	Yes
6	Marking	Yes

No inferences can be made regarding performance against other requirements of this standard

Tests marked "N/A" are not applicable to the sample under test.
Tests marked "N/T" were not applied to the sample under test

AUTHORISATION

Tests performed by: Chris Bryan, Senior Test Engineer

Report issued by: Chris Bryan, Senior Test Engineer

Signed 

Date 16th August 2023

For and on behalf of Element Materials Technology

Report issued by: Mark Garfield, Door and Window Laboratory Manager

Signed 

Date 16th August 2023

For and on behalf of Element Materials Technology

Report issued: 21 August 2023

NOTE.

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.

Tests marked NT were not tested

Tests marked NA are not applicable to the product on test.

The laboratory has tested the product supplied by the client as sampled in accordance with their own requirements

This report shall not be reproduced except in full, (and then only as permitted by copyright laws), without written approval from Element Materials Technology. All work and services carried out by Element Materials Technology Wednesbury Ltd are subject to, and conducted in accordance with, the Standard Terms and Conditions of Element Materials Technology Wednesbury Ltd, which are available at <https://www.element.com/terms/terms-and-conditions> or upon request.

CONTENTS**PAGE NO.**

TEST CONCLUSIONS.....	2
AUTHORISATION.....	3
TEST DETAILS	5
TEST PROCEDURE	6
SCHEDULE OF COMPONENTS.....	7
PERFORMANCE CRITERIA & TEST RESULTS.....	8
CONCLUSIONS	13
LIMITATIONS	13
REVISION HISTORY	14

TEST DETAILS

CLIENT DETAILS

Company name Exitex Ltd
Address Mount Pleasant,
Dundalk,
Co. Louth
Ireland

Contact Mark Thorne

ORDER DETAILS

Order number EXI/00015
Dated 04/08/2022

SAMPLE DETAILS

Product Finger Trapper
Model Roller Finger Blind Protector
Manufacturer Exitex Ltd
Material Aluminium with material curtain
Max opening angle 180 degrees
Condition of sample Good
Product Model 1.01.0948.1925.31
Identification
Date of Manufacture 4322
Other information None

TEST DETAILS

Test specification BS 8613:2017
Full test Yes
Test to clauses

Sample received 06/09/2022
Test started 06/09/2022
Test completed 31/10/2022

Special Test requirements None
Other reports to be used in conjunction with this report None

TEST PROCEDURE

Introduction	<p>This test report should be read in conjunction with the Standard BS 8613:2017 Finger protection devices for pedestrian doors- specification.</p> <p>The specimens were judged on their ability to comply with the performance criteria as required in BS 8613:2017 and tested in accordance to test method EX-FS-OP-BH-WL-SOP-10180.</p>
Instruction To Test	<p>Initial requirement was for a Type A device.</p>
Test Specimen Construction	<p>A description of the test construction is given in the Schedule of Components. The description is based on a detailed survey of the specimens and information supplied by the sponsor of the test.</p>
Installation	<p>The sample was supplied mounted within a test door as per the requirements of clause 7.2 BS 8613:2017.</p>
Sampling	<p>The samples were not independently witnessed or selected and were provided direct from the test sponsor.</p>
Test Climate	<p>The sample was conditioned in the laboratory in the range 15-30 °C</p> <p>The temperature in the lab was maintained in the range 18.7-28.7°C for the duration of the test.</p>

SCHEDULE OF COMPONENTS

(Refer to Figures 1 to 3)
(All values are nominal unless stated otherwise)
(All other details are as stated by the sponsor)

Variants

None

Item

Description

1. Finger protection device

Supplier	:	Exitex Limited
Description	:	Roller Finger Blind Protector
Reference	:	FRG-1
Material		
Type of door intended for use		
i. Type A/ material	:	Timber
ii. thickness of door	:	43mm
Fixings		
i. type	:	Hardened steel
ii. size	:	ISO 7050 2.9n19
iii. quantity	:	7No.
iv. location	:	60mm in from each corner. 300mm c/s
Adhesive	:	Not used

PERFORMANCE CRITERIA & TEST RESULTS

Clause	Requirement	Result	Pass/fail
5.2 Mechanical function and structural integrity (7.4.1 Durability test)	When tested in accordance with 7.4.1, the device shall not break, have any visible cracks or permanent deformation, nor disengage. The device shall be fully functional after the test.		
	Doorset completed 200,000 cycles without any visible cracks/permanent deformation, disengagement, and was fully functional.	200,000 cycles completed. No damage to device and was full functional.	Pass
	Doorset operated for 5 manual cycles at the beginning of the test to the maximum opening angle of 180 °	5 manual tests completed	Pass
	Doorset operated for 5 manual cycles at the middle of the test to the maximum opening angle of 180 °	5 manual tests completed	Pass
	Doorset operated for 5 manual cycles at the end of the test to the maximum opening angle of 180 °	5 manual tests completed	Pass
5.3.2 Prevention of finger entrapment requirement (7.4.2.1 prevention of finger entrapment test)	When tested in accordance with 7.4.2.1, the finger probe shall not be entrapped between the door leaf and door frame, device and leaf, device and door frame or within the device itself. When the finger probe is removed, the normal operation of the door shall not be impaired, and the device shall not be broken, or have any visible cracks or permanent deformation, or disengage.		
	Doorset opened to 35° and probe inserted into most onerous position with 25N (-0+5N) at the beginning of the durability test.	Location: 300 mm from top of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass

Clause	Requirement	Result	Pass/fail
	Doorset opened to 35° and probe inserted into most onerous position with 25N (-0+5N) at the middle of the durability test.	Location: 800 mm from top of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass
	Doorset opened to 35° and probe inserted into most onerous position with 25N (-0+5N) at the end of the durability test.	Location: 300 mm from bottom of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass
	Doorset opened to 90° and probe inserted into most onerous position with 25N (-0+5N) at the beginning of the durability test.	Location: 300 mm from top of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass

Clause	Requirement	Result	Pass/fail
	Doorset opened to 90° and probe inserted into most onerous position with 25N (-0+5N) at the middle of the durability test.	<p>Location: 800 mm from top of device</p> <p>Attempt 1: Probe was unable to be jammed</p> <p>Attempt 2: Probe was unable to be jammed</p> <p>Attempt 3: Probe was unable to be jammed</p>	Pass
	Doorset opened to 90° and probe inserted into most onerous position with 25N (-0+5N) at the end of the durability test.	<p>Location: 300 mm from bottom of device</p> <p>Attempt 1: Probe was unable to be jammed</p> <p>Attempt 2: Probe was unable to be jammed</p> <p>Attempt 3: Probe was unable to be jammed</p>	Pass
5.3.3 Deformation of the device	When tested in accordance with 7.4.2.2, when the finger probe is removed the normal operation of the door shall not be impaired.		
(7.4.2.2 Deformation test)	Doorset opened to 105° and probe inserted into most onerous position with 75N (± 2N) at the beginning of the durability test.	<p>Location: 300 mm from top of device</p> <p>Attempt 1: Probe was unable to be jammed</p> <p>Attempt 2: Probe was unable to be jammed</p> <p>Attempt 3: Probe was unable to be jammed</p>	Pass

Clause	Requirement	Result	Pass/fail
	Doorset opened to 105° and probe inserted into most onerous position with 75N (± 2N) at the middle of the durability test.	Location: 800 mm from top of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass
	Doorset opened to 105° and probe inserted into most onerous position with 75N (± 2N) at the end of the durability test.	Location: 300 mm from bottom of device Attempt 1: Probe was unable to be jammed Attempt 2: Probe was unable to be jammed Attempt 3: Probe was unable to be jammed	Pass
5.4 Small Parts	If any part becomes detached during testing it shall not fit wholly in the small parts cylinder described in 7.2.4 when tested in accordance with 7.4.2.3		
(7.4.2.3 small parts test)	Any component that becomes detached will be placed in the small parts cylinder without compressing it and in any orientation. If the component fits entirely within the cylinder the requirement has not been met.	No small parts became detached	Pass
5.5 Sharp Edges	Edges and protruding parts accessible during use shall be rounded or chamfered and free of burr and sharp edges.	No sharp edges	Pass

Clause	Requirement	Result	Pass/fail
6 Marking	Devices shall be marked clearly and legibly with the following information: i. The manufacturers name, trademark or other means of identification; ii. The product model identification; iii. The number of the standard (e.g. BS8613:2017) iv. The classification according to clause 4 ; and v. The week and year of manufacture (can be coded)	Sample was marked up with a label	Pass

CONCLUSIONS

**Evaluation
against
objective**

The device as provided by the client was subjected to testing in accordance with BS 8613:2017 and meet the requirements.

**Observations &
comments**

LIMITATIONS

Limitations

The results relate only to the behaviour of the specimens of the element of construction under the particular conditions of test. They are not intended to be the sole criteria for assessing the potential performance of the element in use, nor do they reflect the actual behaviour in use.

**Uncertainty of
Measurement**

The uncertainties of measurements calculated for a confidence level of 95% throughout these tests are within the limits of these tolerances.

REVISION HISTORY

This issue of the report replaces all previous issues that are now withdrawn.

Issue No : 2	Re - Issue Date : 21/08/2023
Revised By: CB	Approved By: MG
Reason for Revision: Grammatical error	

END OF REPORT